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ABSTRACT OF THE DISCLOSURE

A computer system for dynamically accessing externally connecting storage devices is provided, which is connected with or separated one or more of the storage devices via a hot plug connection. The computer system includes a connection interface, an I/O control circuit, a system control circuit, an interface control circuit, and a central processing unit. The central processing unit determines whether the connection status between the storage devices and the I/O control circuit has changed, and, if so, executes an interrupt service sequence. During the interrupt service, the central processing unit loads the corresponding interface settings into the interface control circuit for accessing the storage devices according to the current number of connected storage devices and their corresponding configuration association.